



## CERTIFICATE OF ANALYSIS

Date: 31/01/18

PRODUCT NAME : L-THREONINE FOR BIOCHEMISTRY

CAS No : 72- 19- 5  
Mol. Formula : C<sub>4</sub>H<sub>9</sub>NO<sub>3</sub>  
Mol. WT : 119.12  
Exp. : Dec. 2022

Product code : 54060  
Batch No : MCR-6267-02  
Mfd. : Jan. 2018

S. R	Test	Specification	Observation
1	Assay(HClO <sub>4</sub> titration)	99% min	99.06%
2	Specific rotation [ $\alpha$ ] <sup>20</sup> <sub>D</sub> C =2, water	- 29 to - 27 <sup>0</sup>	-29
3	Loss on drying at 105°C	0.5%max	0.1%
4	Chloride (Cl)	0.01%max	<0.01%
5	Sulphate (SO <sub>4</sub> )	0.01%max	<0.01%
6	Iron (Fe)	0.001%max	<0.001%
7	Heavy metals (Pb)	0.001%max	<0.001%
8	Ammonium (NH <sub>4</sub> )	0.01%max	<0.01%

REMARK: THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

[Tested By]

[QC Incharge]

HEAD-QUALITY ASSUARANCE  
(G.G.Salian)

Note: Computer generated image requires no sign.

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